	Application No.	Applicant(s)
	10/600 472	SHACHAR VEHOSHIA
Notice of Allowability	10/690,472 Examiner	SHACHAR, YEHOSHUA Art Unit
	La constallata	0707
	James Kish	3737
The MAILING DATE of this communication apperation apperation allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED or other appropriate comministry. This application is	in this application. If not included nunication will be mailed in due course. THIS
1. \boxtimes This communication is responsive to $3/8/07$.		
2. The allowed claim(s) is/are <u>1-24, 35-38 and 40-44</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority una) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have	e been received.	
2. Certified copies of the priority documents have	• •	
 Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	ocuments have been receive	ed in this national stage application from the
* Certified copies not received:		·
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		le a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mu	st be submitted.	
(a) I including changes required by the Notice of Draftsper	son's Patent Drawing Revie	ew (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	_·	
(b) including changes required by the attached Examiner Paper No./Mail Date	's Amendment / Comment (or in the Office action of
Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the header according to 37 C	the drawings in the front (not the back) of FR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT 		
•		
Attachment(s)		
1. Notice of References Cited (PTO-892)		nformal Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)		Summary (PTO-413), o./Mail Date
3. Information Disclosure Statements (PTO/SB/08),		s Amendment/Comment
Paper No./Mail Date 4.	8. 🛭 Examiner	s Statement of Reasons for Allowance
	9. 🗌 Other	<u>_</u> .
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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Lee Henderson (Reg. No. 41,830) on May 11, 2007.

The application has been amended as follows:

35. An apparatus for controlling movement of a tool having a distal end to be inserted in a body, comprising;

a magnetic field source configured in a cluster-like arrangement on a C-Arm forming a magnetic circuit and generating a magnetic field, said magnetic field source comprising a first plurality of electromagnet coils provided substantially above the body and a second plurality of electromagnet coils provided substantially below the body;

a tool having a distal end responsive to said magnetic field;

a system controller for regulating electrical currents in said first plurality of electromagnet coils and said second plurality of electromagnet coils to produce a desired strength and orientation of said magnetic field to provide a position and

command input to control said tool distal end to produce substantially simultaneous rotation and elevation of said distal end [;] and

a radar system for measuring a position of said distal end; and

wherein said system controller compensates for a dynamic position of a

wall of a heart chamber, thereby offsetting a response of said distal end to said

magnetic field such that said distal end moves in substantial unison with said

wall.

39. (Cancelled)

The following is an examiner's statement of reasons for allowance:

Independent Claim 1 provides a system controller that uses data from a radar system to differentiate between a catheter tip and body tissue via dielectric constants.

This is implemented within a magnetically guided catheter system.

Independent Claim 35, as amended, provides a system controller which moves the tip of a catheter-type medical instrument in unison with the inner wall of a patient's heart. Mayer (US Patent No. 6,126,651) discusses a method for moving a suture tool in unison with the beating heart during open heart surgery, thereby canceling the motion of the heart with respect to the instrument's working end. However, this synchronization of the medical instrument with the beating heart is accomplished by pacing of the heart. Therefore, the heart is synchronized with the instrument, whereas Claim 35 of the

present invention compensates the distal end of the instrument based on motion of the heart wall.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James Kish whose telephone number is 571-272-5554. The examiner can normally be reached on 8:30 - 5:00 ~ Mon. - Fri..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Casler can be reached on 571-272-4956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

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